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AMENDMENTS TO THE CLAIMS:

- 1-11. (cancelled)
- 12. (previously amended) An improved p-type gallium nitride-based semiconductor device comprising:
- a device structure that includes at least one p-type Group III nitride layer that includes some gallium;
 - a plurality of silicon dioxide portions on said p-type Group III nitride layer;
- a portion of a Group II metal source composition layer on each of said silicon dioxide portions; and
 - a second silicon dioxide layer on said Group II metal source composition layer,
- wherein said second silicon dioxide layer is limited to said source composition layer portions.
 - 13-47. (cancelled)
- 48. (currently amended) A semiconductor device according to Claim 47, comprising: An improved p-type gallium nitride-based semiconductor device comprising:
 - a conductive silicon carbide substrate;
- a conductive buffer layer on said silicon carbide substrate for providing a crystal transition between said substrate and Group III nitride portions of said device;
 - an n-type Group III nitride layer on said buffer layer;
- a p-type Group III nitride layer that includes some gallium directly on said n-type layer and forms a p-n junction;
 - a plurality of silicon dioxide portions on said p-type Group III nitride layer;
- a portion of said \underline{a} magnesium source composition layer on each of said silicon dioxide portions; and

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a second silicon dioxide layer on said magnesium source composition layer, wherein said second silicon dioxide layer is limited to said magnesium source composition layer portions.

49. (cancelled)